

IN THE CLAIMS

1(currently amended). A device for spreading large dry particulate matter comprising:

a main elongate tube of approximately eight to ten inches in diameter and seven to ten inches in length;

a supply hopper;

a secondary tube having a smaller diameter tube one and one-half to two inches in diameter and being affixed to the main tube at a sixty degree angle to the perpendicular of the main tube and contiguous with the main tube, a portion of the secondary tube protruding into the hollow interior of the main elongate tube, the secondary tube being connected downstream of the supply hopper; and

a means for controlling a gravitational feed of the volume of material dispensed from the hopper after the material is dispensed from the hopper, the means for controlling the gravitational feed of the volume of the material being located on the secondary tube and upstream of a connection point of the main tube and the secondary tube and downstream from the hopper,

wherein an intake of end is for connecting to a means for providing high velocity forced airflow through a hollow interior of the main tube resulting in the broadcasting or spreading of the desired particulate matter that is received from a the gravitational particulate flow feed from the portion of the secondary tube protruding into the main elongate tube in the path of the high velocity airflow, decoupled from the high velocity forced airflow, in the secondary tube and combined with the high velocity forced airflow so that particulate flowing through the secondary tube and the main tube do not engage with the means for providing high velocity forced airflow thereby resulting in little or no damage to the material broadcast over an area of ground.

2(canceled).

3(currently amended). The apparatus as claimed in Claim [[2]] 1 wherein the main elongate tube and the secondary tube are generally cylindrical with hollow centers.

4(previously presented). The apparatus as claimed in Claim 3 wherein the hollow centers of the main tube and the secondary tubes are in fluid communication.

5-10(canceled).

11(currently amended). The apparatus as claimed in Claim 1 10 wherein the particulate matter flow and the high velocity forced air flow are combined adjacent the connection point of the main elongate tube and the secondary tube and within the hollow interior of the main elongate tube.

12(previously presented). The apparatus as claimed in Claim 11 wherein the flows are combined through fluid mechanical forces, wherein the high velocity forced airflow applies a pulling force on the particulate flow.

13(previously presented). The apparatus as claimed in Claim 12 wherein the fluid mechanical forces include the venturi effect.

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14(currently amended). The apparatus as claimed in Claim 1 [[2]] further comprising a flexible discharge hose connected to the discharge end of the main body and for varying the discharge direction of the mixed flows.

15(previously presented). The apparatus as claimed in Claim 14 further comprising a direction control rod connected to the flexible discharge hose and for providing a force on the flexible discharge hose to vary the discharge direction.

16(canceled).

17(currently amended). A broadcast spreader attachment apparatus, comprising:

a main tube having a diameter, a hollow interior for supporting an high velocity forced airflow and having an intake end and a discharge end;

a supply hopper;

a secondary tube being disposed upstream of the main tube and downstream of the hopper, and having a diameter less than the diameter of the main tube creating a diameter differential for varying the a gravitational feed flow rate from the hopper between the main tube and the secondary tube,

wherein the secondary tube being is connected to the main tube, and protruding into the hollow interior of the main tube so that an opening in the secondary tube is disposed in the approximate center of the hollow interior of the main tube and in the path of the high velocity airflow and being decoupled from the high velocity forced airflow;

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a particulate flow control connected to the secondary tube and upstream from the connection point of the main tube and secondary tube for further varying a flow differential between the main tube and secondary tube ~~be~~, after material is dispensed from the supply hopper, effectively changing the diameter of the secondary tube through which the particulate flows;

a control knob connected to the material flow control for varying the effective diameter;

means for providing a airflow in the main tube; and

~~means for providing a particulate flow in the secondary tube; and~~

means for creating a combined flow of the airflow and the particulate flow.

18(previously presented). The apparatus as claimed in Claim 17 wherein the means for providing a airflow in the main tube is a leaf blower.

19(canceled).

20(previously presented). The apparatus as claimed in Claim 17 further comprising means for controlling the direction of broadcast of the combined airflow and particulate flow.